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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/725,073	12/01/2003	Eiji Ohta	09792909-5742	2729	
26263	7590 08/14/2006		EXAM	EXAMINER	
SONNENS	SONNENSCHEIN NATH & ROSENTHAL LLP WALSH, DANIEL I			DANIEL I	
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WACKER I	DRIVE STATION, SEAR:	S TOWER	ART UNIT	PAPER NUMBER	
CHICAGO,	IL 60606-1080		2876		
			DATE MAILED: 08/14/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

			S
	Application No.	Applicant(s)	
	10/725,073	OHTA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Daniel I. Walsh	2876	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address	·
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by standard property received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communi BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2	<u>6 May 2006</u> .		
2a)⊠ This action is FINAL . 2b)□ 1	This action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice under	•	· •	ts is
Disposition of Claims			
4) ☐ Claim(s) 1,6-9 and 17 is/are pending in the 4a) Of the above claim(s) is/are withe 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,6-9 and 17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.	·	
Application Papers			
9) The specification is objected to by the Exam	niner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	•	•	
Applicant may not request that any objection to	* `,	` '	8 44 D
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
12) △ Acknowledgment is made of a claim for fore a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority docum 2. ☐ Certified copies of the priority docum 3. ☐ Copies of the certified copies of the p	ents have been received. ents have been received in A	Application No	<u>.</u>
application from the International Bu	•		
* See the attached detailed Office action for a	, , , , , , , , , , , , , , , , , , , ,	t received.	
Attachment(s)	_		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB, Paper No(s)/Mail Date 12-05. 	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 	

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DETAILED ACTION

1. Receipt is acknowledged of the Amendment received on 26 May 2006 and IDS of 30 December 2005.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 1, 7-9, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ota et al. (JP 2002-163624).

Ota et al teaches an IC card with an IC chip 5 mounted on an insulating substrate 1 having an antenna coil 3, and a chip reinforcing plate (9, 9') provided on at least an IC mounted surface of the insulating substrate 1, a core layer 13 comprising a plurality of sheet materials

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15,16 having an IC module disposed there between. The plurality of sheet materials comprise a pair of inner core sheets 15,16 that are adjacent to the IC module. Though Ota et al. is silent to through holes for the IC module, the examiner notes it is well known and conventional to have such a hole/recess in order to fit the IC module into the core, and therefore such modification is well known and conventional in the art, as an obvious expedient. For clarification purposes, the Examiner notes that FIG. 1 shows an arrangement where an IC ship and reinforcing plates are disposed in what appears to be a holes/cavity (interpreted as a through hole by the Examiner). In FIG. 1, the height of the hole on both sides appears to be substantially equal to that of the projections, thus satisfying the relationships set forth in the claims. The Examiner notes that as per FIG. 5 of the Applicants own Application, the projections are illustrate as being the distance between the insulating substrate and the reinforcing plate. Accordingly, the sum of the through holes (measured on both sides of the substrate), being substantially equal to the projection height, as the reinforcing plate is at the ends of the through holes, the limitations are met, as B1+C1 is seen as substantially equal to A, which places it in the claimed range. It is interpreted by the Examiner that upon formation of the card by pressure, that a through hole can be created. As the claims do not recite that the through hole is cut before chip placement, that the through hole penetrates certain layers/sheets, Ota et al. is believed to read upon the claimed limitations. Additionally, the Examiner notes that the term "projection" is sufficiently broad. The claims have not recited what the projection is, and the Examiner notes that any reasonable interpretation can be applied by additional art, to meet the broad recitation of a projection.

Re claim 7, display layer 20 is a rewritable display layer.

Re claims 8-9, Ota et al. teaches the limitations (paragraph [0037]+)

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Re claim 17, the limitations have been discussed above.

3. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ota et al., as discussed above, in view of Saito et al. (JP 11078324).

The teachings of Ota et al. have been discussed above.

Ota et al. is silent to an outer core sheet stacked on at least one of the pair of inner core sheets.

Saito et al. teaches outer core sheets (SOLUTION).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Ota et al. with those of Saito et al.

One would have been motivated to do this to increase impact resistance strength and heat resistance/protection.

Response to Arguments

4. Applicant's arguments with respect to claims have been considered but are not persuasive. As discussed above, the Examiner notes that the dimensional relationship appear to be taught by the prior art, as the B1 and C1 appear to correspond to the size of the opening/through holes.

Additional Remarks

5. The Examiner notes that Usami et al., as cited previously, teaches that the size of an IC chip is in the range of 30 micrometers. Additionally, multilayered cards (sheets) are well known in the art (US 5,346,576 6,352,767, 5,888,624, 5,304,513, and 5,026,452).

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Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel I. Walsh whose telephone number is (571) 272-2409. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel I Walsh Examiner

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7-24-06

AHSHIK KIM BRIMARY EXAMINER

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